Trees at Langstone Lodge, 1 Langstone High Street, Havant

Tree No.	Species	Stem diameters (cm)	Branch Spread (m)				Tree Height	Height of first branch	Crown clearance over adjacent footway (m)	Crown clearance over carriageway (m)	Age class	Stem(s) grading	Condition Physiological / Structural	Tree Works to BS3998	Root protection radius (m)	Tree protection area (m²)
			N	E	S	W										
1	Holm oak	57	4	5	5	5	14	4	M	A1	140		Visually mature tree showing vigorous growth		11.40	408
2	Monterey pine	41	3	3	3	3	14	5	M	A1	80		Growing close to boundary wall. Crown suppressed on the east		8.64	234
3	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
4	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
5	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
6	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
7	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
8	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
9	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
10	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
11	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
12	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
13	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
14	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
15	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
16	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
17	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
18	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
19	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
20	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
21	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
22	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
23	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
24	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
25	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
26	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
27	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
28	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
29	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
30	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
31	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
32	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
33	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
34	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
35	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
36	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
37	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
38	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
39	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
40	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
41	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
42	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
43	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
44	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
45	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22
46	Yew species	11	2	2	2	2	4	1	M	A2	40		Light of sense of vertical stem form. Good growing condition. Crown suppressed by encroachment of adjacent trees		2.64	22

Figure 1: Example of a protective barrier

1. Steel 'roll' bend
2. Corners to be fixed to secure panels
3. Chipboard (or)
4. Whole foot to avoid crown root/soil pulls
5. Whole tree weighted with blocks

Figure 2: Typical ground protection detail

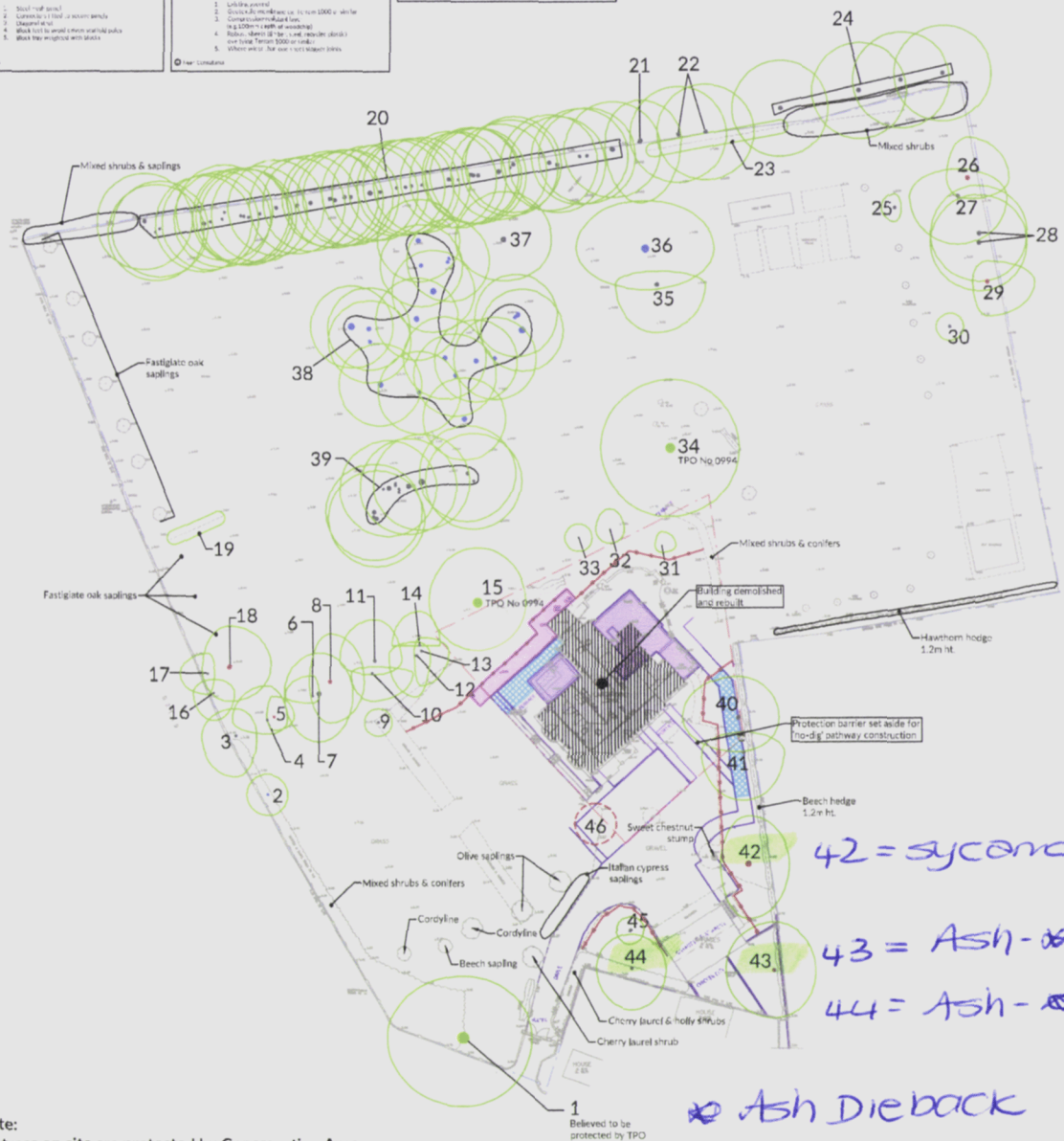
Plan of ground protection detail

Section of ground protection detail

1. Existing ground
2. Geotextile membrane (ie. Terram 1000 or similar approved)
3. Compressible material (eg. 100mm depth of woodchip)
4. Robust, level platform (eg. metal, wooden panels) over lying Terram 1000 or similar approved
5. Where vehicular use over root system expect some compaction

Figure 3: Typical detail of 'no-dig' surfacing

1. Surface material to engineer's specifications
2. Geotextile separation fabric as layout by engineers
3. Treated timber edging supported on timber pegs or concrete ground boards to specified on concrete spur posts if required
4. 40/20mm clean angular stone
5. Cellular confinement system to engineer's specification and depth
6. Facing ground levels retained (no excavation)
7. Soil fills can be used to edges



Note:
All trees on site are protected by Conservation Area

NORTH

0 5m 10m 25m

NOTES

1. The original of this drawing was produced in colour - a monochrome copy should not be relied upon.
2. Scale for planning purposes only.
3. All dimensions to be checked on site.
4. The copyright of this document resides with Keen Consultants unless assigned in writing by the company.
5. Details shown on this drawing are devised with reference to BS5837:2012 Trees in relation to design, demolition and construction - Recommendations.
6. Tree Preservation Order and Conservation Area based on Havant Borough Council portal map.
7. Topographical survey based on Harris Surveys Ltd drawing number 21341.
8. Where trees were not identified on the topographical survey they have been plotted by eye.
9. Site Plan based on Thorn Design drawing number 30129.303.

KEY

- Existing site features
- Proposed extention
- Trees retained (Green-coloured line indicates extent of canopy)
- Tree for removal (Red-coloured dash line indicates extent of canopy)
- 2.0m High barrier as detail in Figure 1
- Area of ground protection as detail in Figure 2
- Minimum extent of no-dig construction. Actual deployment may be greater. As detail in Figure 3

KEY TO TREE SCHEDULE

Column Heading	Explanation
Tree No.	Unique number corresponding with number on plan
Species	English name
Height	Height in metres
Branch Spread	Crown radius in metres to cardinal points of the compass
Stem Dia.	All trees assessed conform to Annex C of BS 5837:2012 Single stem - Stem diameter in centimetres measured at 1.5m above ground level Multi-stemmed tree with 2 to 5 stems - Diameter of each stem Multi-stemmed tree with more than 5 stems - Average stem diameter and number of stems
Height of crown clearance	Height in metres between the ground and the underside of the canopy
Height of first major branch and direction of growth	Height from ground level to base of the major branch and the approximate direction of growth
Abbreviations	Suffix of dbh indicates an estimated dbh in stem Suffix ae denotes an average dimension
Age Class	Age Class definitions Y - Young, S - Semi-mature, E - Early mature, M - Mature, O - Over mature
Category grading and lifetime of remaining Contribution	Summary of BS 5837: 2012 categorisation U - Trees unsuitable for retention A - Trees of high quality and value: those in such a condition as to be able to make a substantial contribution (a minimum of 40 years is suggested) B - Trees of moderate quality and value: those in such a condition as to make a significant contribution (a minimum of 20 years is suggested) C - Trees of low quality and value currently in adequate condition to remain until new planting could be established (a minimum of 10 years is suggested) or young trees with a stem diameter below 150mm
Estimated remaining contribution	Note: Useful assessment remaining contribution of tree or tree group based on figure stated by BS5837:2012
Condition	Brief description including any obvious and material defects
Tree Works	Works required to accommodate the trees to facilitate the construction of new dwelling or alterations and during the works
Root Protection Radius	Radius of circle on root protection area (in metres) calculated from stem in accordance with Annex D of BS5837:2012
Root Protection Area	Total area of minimum root protection area extrapolated from root protection radius

Rev	Description	Date
A	Tree protection measures updated	17.10.22
0	Preliminary Issue	15.02.22

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Project
LAND AT LANGSTONE LODGE,
1 LANGSTONE HIGH STREET, LANGSTONE

Title
TREE PROTECTION PLAN

Date	Scale
FEB 2022	1:500@A2
Drawn by	Checked by
ML	JTK

Drawing Number
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